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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,282	01/22/2001	Liang-Guo Wang	A4182/T34100 2040	
32588 7590 11/15/2002 APPLIED MATERIALS, INC.			EXAMINER	
	BLVD. M/S 2061 RA, CA 95050		HASSANZADEH, PARVIZ	
			ART UNIT	PAPER NUMBER
			1763	8
			DATE MAILED: 11/15/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

				59	5			
		Application No.		Applicant(s)				
٠	•	09/767,282		WANG ET AL.				
Office Action Summary		Examiner		Art Unit				
		Parviz Hassanzad		1763				
Period for	The MAILING DATE of this communication app Reply	ears on the cover s	heet with the c	correspondence address				
THE M - Extens after S - If the p - If NO p - Failure	PRTENED STATUTORY PERIOD FOR REPL' IAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.1 IX (6) MONTHS from the mailing date of this communication. Deeriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howevery within the statutory minimwill apply and will expire Sl	er, may a reply be tin num of thirty (30) day X (6) MONTHS from necome ABANDONE	nely filed  /s will be considered timely.  I the mailing date of this communication.  ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 05	September 2002						
2a) <u></u>	,	nis action is non-fin						
3)□ Dispositio	Since this application is in condition for allow closed in accordance with the practice under on of Claims	ance except for for Ex parte Quayle, 1	mal matters, p 1935 C.D. 11,	rosecution as to the merits is 453 O.G. 213.				
	Claim(s) 1-32 is/are pending in the application							
4	(a) Of the above claim(s) is/are withdra	wn from considera	tion.					
5)	Claim(s) is/are allowed.							
6)□	S) Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.							
1	Claim(s) 1-32 are subject to restriction and/or	election requireme	ent.					
1	on Papers							
1 '	The specification is objected to by the Examin			ta				
10) 🗆 -	The drawing(s) filed on is/are: a)□ acce							
	Applicant may not request that any objection to the	he drawing(s) be held	d in abeyance.	See 37 CFR 1.85(a).				
11) 🗌	The proposed drawing correction filed on			Toved by the Examiner.				
	If approved, corrected drawings are required in re-		ion.					
, —	The oath or declaration is objected to by the E	xammer.						
	under 35 U.S.C. §§ 119 and 120			(a) (d) or (f)				
1	Acknowledgment is made of a claim for foreign	gn priority under 35	0.5.0. 9 119	(a)-(u) or (i).				
a)	☐ All b)☐ Some * c)☐ None of:	to be seen became an an	i. ad					
	1. Certified copies of the priority documer			ation No				
	2. Certified copies of the priority document							
	3. Copies of the certified copies of the pri application from the International E See the attached detailed Office action for a list	Bureau (PCT Rule 2 st of the certified co	17.2(a)). ppies not recei	ved.				
14) 🔲 ,	Acknowledgment is made of a claim for domes	stic priority under 3	5 U.S.C. § 119	9(e) (to a provisional applicatio	n).			
l	a)  The translation of the foreign language p Acknowledgment is made of a claim for dome	rovisional applicati	on has been r	eceived.				
Attachme								
2) Noti	. ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-13, drawn to an apparatus (plasma processing apparatus), classified in class 156, subclass 345.44.
- II. Claims 14-30, drawn to a method, classified in class 438, subclass 710.
- III. Claims 31-32, drawn to an apparatus (power system), classified in class 315, subclass 111.21.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Groups I, III and Group II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used for applying an amplitude modulated *bias* signal to a wafer support rather than for forming a plasma, or for modulating a gas flow rather than for forming a plasma.

Inventions Group III and Group I are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as being implemented for a non-plasma processing apparatus such as for modulating a gas flow into a reactor via a modulated valve. See MPEP § 806.05(d).

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1 - Embodiment 1, page 8, lines 4-12, Figs. 3, 6A-6B, (including a carrier signal being modulated with a frequency modulated signal from a modulated source);

Species 2 - Embodiment 2, page 8, lines 13-19, Figs. 3, 5A-5C, (including a carrier signal being modulated with an amplitude modulated signal from a modulated source);

Species 3 - Embodiment 3, page 8, lines 20-30, Fig. 3, (including a carrier signal being modulated with an amplitude modulated signal and a frequency modulated signal from a modulated source).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are fully generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Patrick R. Jewik on 11/11/02 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Parviz Hassanzadeh whose telephone number is (703)308-2050. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on (703)308-1633. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703)872-9310 for regular communications and (703)872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

1. Ifanonzadek Parviz Hassanzadeh

Examiner

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November 11, 2002